| Index of Claims |  |
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| Application/Control No. | Applicant(s)/Patent under Reexamination |  |
|-------------------------|---|--|
| 10/716,278              | LAYADI ET AL.                           |  |
| Examiner                | Art Unit                                |  |
| Christian Wilson        | 2891                                    |  |

| Rejected | _ | (Through numeral)<br>Cancelled | Z |  |
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| Allowed  | + | Restricted                     | _ |  |

| N | Non-Elected  | Α | Appeal   |
|---|--------------|---|----------|
| ı | Interference | 0 | Objected |

| E      | Claim Date |     |                                     | Claim Date                                       |               |                     |          |              | CI.  | aim      | Date |          |     |               |         |                |                     |   |  |          |     |     |          |          |          |                 |          |               |          |          |          |
|--|------------|-----|-------------------------------------|--|---------------|---------------------|----------|--------------|--|----------|------|----------|-----|---------------|---------|----------------|---------------------|---|--|----------|-----|-----|----------|----------|----------|-----------------|----------|---------------|----------|----------|----------|
| 1  |            |     |                                     | Ī.,  |               | П                   |          | Ī            |  |          |      |          |     |               |         |                | П                   |   |  |          |     |     |          |          | П        |                 |          |               | $\neg$   | $\neg$   |          |
| 1  | न्न        | 2.  | 8                                   | 9  | l             |                     |          | 1            |  |          |      | ल        | ina |               |         |                |                     |   |  |          | त्त | ı.  |          |          | - 1      |                 |          |               |          |          |          |
| 1  | i.         | j.  | 19                                  | 1,1  |               |                     |          | 1            |  |          |      | ᇤ        | nig |               |         |                |                     |   |  |          | Ë   | rig |          |          | - 1      |                 |          |               |          |          |          |
| 102  |            | 0   | ١٣                                  | _  |               |                     |          | 1            |  |          |      |          | 0   |               |         |                | 1                   | -   | 1  |          |     | 0   |          |          | - 1      | - 1             |          |               |          | 1        | i        |
| 102  |            | 1   | J                                   | J  | $\vdash$      | $\vdash$            | $\dashv$ | +-           | +-   | Н        |      |          | 51  |               | _       | 1              | $\vdash$            | $\neg$  |  | -        |     | 101 |          | $\dashv$ | -        |                 | ┪        |               | $\dashv$ | ┪        | _        |
| 3  | _          |     | H                                   | +  | -             |                     | +        | +            | +  | $\vdash$ |      |          |     | _             | +       | ├-             | $\vdash$            | +-  |  | -        |     |     | $\dashv$ | $\dashv$ | ┪        | ᅥ               | $\dashv$ |               | $\dashv$ | ┪        | $\dashv$ |
| A  |            |     | H                                   | H  |               | $\vdash$            | +        | +            | +  | $\dashv$ |      |          | 52  |               |         | ╁              | $\vdash$            |   | ╁  | $\dashv$ |     | 102 | $\dashv$ | $\dashv$ | ╛        | ᅥ               | $\dashv$ | -             | ┰        | -        | $\dashv$ |
| S  |            |     | Н                                   | Н  |               | $\vdash$            | +        | +-           |  | -        |      |          |     | $\vdash$      | +       | ╁╌             | $\vdash \vdash$     |   | H  | -        |     | 103 | $\dashv$ | -+       | -+       | $\dashv$        | $\dashv$ | -             | $\dashv$ | -        | $\dashv$ |
| 6  | _          |     | Н                                   | ₩  | <del> -</del> | ┝╼┼╸                |          | ┿            | +  | Н        |      |          |     |               | -       | ⊢              | $\vdash$            | -   | $\vdash$   |          |     | 104 | $\dashv$ | $\dashv$ | -+       | $\dashv$        | ┥        | $\dashv$      | -        | -        | $\dashv$ |
| 7  |            |     | Н                                   | ₩  | _             | $\vdash$            | +        | +            | +  | -        |      |          | 50  | +             | +       | -              | -                   |   | $\vdash$   | -        |     | 100 | $\dashv$ | $\dashv$ | $\dashv$ | -               | $\dashv$ | -             | $\dashv$ | $\dashv$ | $\dashv$ |
| S  |            |     | Н                                   | Н  | _             | H                   | +        | +            | +-   | $\dashv$ |      |          |     |               |         | -              | $\vdash$            | +-  | $\vdash$   |          |     | 100 | $\vdash$ | -+       | -        | -               | $\dashv$ |               | -+       | $\dashv$ | $\dashv$ |
| 9  |            |     | ₽                                   | ₩  | -             |                     | -        | +-           | +  |          |      |          |     | -             |         |                | $\vdash$            | +   | ⊢⊢   | -        |     |     | $\dashv$ | -        | -        | -               | ᅱ        | -             | +        | $\dashv$ | ႕        |
| 10   |            |     | Н                                   | ₩  | _             | $\vdash$            |          | -            | -  | Н        |      |          |     | -             | -       | -              |                     |   |  | -        |     |     | $\dashv$ | -        | -        | _               | 4        |               | 4        |          | $\dashv$ |
| 11   |            |     | Н                                   | ₩  | _             | $\vdash$            | +        | 4            | +  | $\vdash$ |      |          |     |               | —       | $\vdash$       | ⊢-                  |   | ₩  |          |     | 109 |          | $\dashv$ | -        | $\dashv$        | -        | $\dashv$      | $\dashv$ | -        |          |
| 12   |            |     | Н                                   | 11   | _             |                     | _ _      |              | 1  | Ш        |      |          |     | _             | 4-      |                | $\vdash$            | 4   | ┷  | _::::    |     |     |          | 4        | _        | _               | _        |               |          | 4        | _        |
| 13   |            |     | Ш                                   | 11   |               | $\vdash \downarrow$ |          | 4            | 44   | Ш        |      |          |     |               |         | _              | $\sqcup \bot$       |   | 1-1-   | 4        |     | 111 | _        | _        | _        | _               | _        | _             | _        | _        | _        |
| 14   |            | 12  | Ш                                   | Ш  |               | $\sqcup$            |          | $\downarrow$ | $\perp$  | Ш        |      |          |     |               |         | _              | $\sqcup$            |   | L_ _   | _        |     |     |          | _        | _        | _               | _        |               | _        | _        | _        |
| 15   |            |     | Ш                                   | Ш  |               | $\sqcup$            |          | <u> </u>     | $\perp$  | Щ        |      |          |     | $\perp$       |         | $oxed{oxed}$   |                     | $\bot$  | oxdot  | _        |     |     |          | _        | _        |                 | ļ        |               | _        |          | _        |
| 15   |            | 14  | Ц                                   | Ш  |               |                     |          | $\perp$      | لــــــــــــــــــــــــــــــــــــــ  |          |      |          | 64  | $\bot$        | $\perp$ |                | $\sqcup$            |   | $oxed{oxed}$                                     | ╝        |     | 114 |          |          | $\perp$  |                 |          |               | $\perp$  |          |          |
| 17   |            |     | Ш                                   | Ш  |               |                     |          |              |  |          |      |          |     |               |         |                |                     |   |  |          |     | 115 |          |          |          |                 | _        |               |          |          | 凵        |
| 18   V   V   |            |     |                                     |  |               |                     |          |              |  |          |      |          | 66  |               |         |                |                     |   |  |          |     | 116 |          |          |          |                 |          |               |          |          | $\Box$   |
| 19   |            | 17  | 1                                   | 1  |               |                     |          |              |  |          |      |          | 67  |               |         |                |                     |   |  |          |     | 117 |          |          |          |                 |          |               |          |          |          |
| 19   |            | 18  | 1                                   | 1  |               |                     | Т        | T            | $\Box$   |          |      |          | 68  |               |         |                | П                   |   |  |          |     | 118 | $\Box$   |          |          |                 |          |               |          | $\neg$   | $\neg$   |
| 20   120   120   120   121   121   121   121   122   122   122   122   123   123   124   124   124   124   124   125   125   126   126   126   126   127   127   127   127   128   128   129   129   129   130   130   130   130   131   131   131   131   131   131   131   131   131   131   131   133   133   133   133   133   133   134   135   135   135   135   135   135   136   137   138   137   138   137   138   139   149   140   141   141   141   141   141   141   141   141   141   142   142   142   142   142   143   14  |            | 19  | Т                                   | Г  |               | $\neg$              | $\top$   | 1            | $\top$   |          |      |          |     |               | $\top$  |                | П                   | $\neg$  |  |          |     | 119 |          | $\Box$   |          |                 |          |               | $\neg$   | $\neg$   | ╗        |
| 21   71   72   121   122   123   123   123   123   123   123   123   123   123   123   123   124   124   124   124   124   124   125   126   126   126   126   127   127   127   127   127   127   127   128   129   130   130   130   130   130   130   130   130   130   130   130   131   131   131   131   131   131   131   131   131   131   131   132   133<  |            |     |                                     | Т  |               | $\neg$              | 十        | 1            | $\top$   |          |      |          |     | T             | _       | $\vdash$       | $\Box$              |   | $\Box$   |          |     | 120 |          | T        |          |                 |          | $\neg$        |          | 一        | ╗        |
| 22     122     123     123     123     123     124     124     124     124     124     125     125     125     125     125     126     127     127     127     128     128     128     128     128     128     128     129     129     130     130     130     130     130     131     131     131     131     131     132     132     132     132     132     133     134     134     134     134     134     134     135     136     136     136     136     136     136     136     137     137     138     138     138   |            |     |                                     |  |               |                     | 十        | 1            | $\top$   |          |      |          |     | $\neg$        |         |                | $\Box$              | $\neg$  |  | 7        |     | 121 |          |          | $\neg$   |                 |          | ヿ             |          | ┪        |          |
| 23     123     123     124     124     124     124     125     125     125     125     126     126     126     127     127     127     127     127     127     127     127     127     127     128     128     128     128     129     129     129     130     130     130     131     131     131     131     133     133     133     133     133     133     133     133     133     133     133     133     133     134     135     136     136     136     136     136     137     137     137     137     137     137     138     138     138     138     139     139     139     139     139     139     139     141   |            |     | 1                                   |  | _             | $\neg$              | $\top$   | 1-           | $\top$   |          |      |          |     | _             | $\top$  |                | $\vdash$            |   |  |          |     |     | $\neg$   | ╅        | $\neg$   |                 | ヿ        | ┪             | ╅        | 寸        | ┪        |
| 24     124     124     124     125   |            | 23  |                                     | $\vdash$   | _             | $\vdash$            | $\top$   | $\top$       | 1  |          |      |          |     | $\neg$        | 1.      |                | $\vdash$            |   |  | -        |     | 123 |          | 寸        | 7        | _               | $\neg$   | ヿ             | T        | 寸        | ┪        |
| 25     125     125     126     126     126     126     126     127     127     127     127     127     128     128     128     129     128     129     129     129     130     130     131     130     131     131     131     132     133     133     133     133     133     133     133     133     133     133     133     133     133     134     134     134     134     134     134     135     135     135     135     135     135     136     137     137     137     137     137     138     138     138     138     138     138     138     139     139     140     140     140     140     141     141     142     142     142     142     142     143     143     144     144     145     145     146     146     147     147     147     147     148     148     148     148     149   |            |     |                                     |  |               |                     |          | $\top$       | $\top$   |          |      |          |     | $\neg$        | _       |                | $\vdash$            |   |  | -        |     |     |          | 十        | $\dashv$ |                 |          | 寸             | T        | 寸        | ╛        |
| 26     126     126     127     127     127     127     127     127     128     128     128     128     128     128     129     129     129     129     130     130     130     130     131     131     131     131     131     131     131     131     131     131     131     131     131     132     133     134     134   |            | 25  | ├─                                  | 一  |               | -                   | +        | +            | 1  | $\dashv$ |      |          | 75  | _             | +       | -              | -                   | $\dashv$  |  |          |     | 125 | $\dashv$ | $\dashv$ | 寸        | $\neg$          | 寸        | 一             | 十        | ┪        | $\neg$   |
| 27     28     127     128     128     128     128     128     129     129     129     130     130     130     130     130     130     131     131     131     131     131     131     131     131     131     131     131     131     131     131     131     131     132     133     133     133     133     133     133     133     133     133     133     134     134     134     135     136     136     136     136     137     137     137     137     137     137     138     138     138     138     138     139     140     140     141     141     141     141     141     141     141     141     141     142     142     142     142     142     143     144     144     144     144     145     145     146     146     147     147     147     147     147     147     149     149  |            | 26  | ┢                                   | $\vdash$   |               | $\vdash$            |          | +            | +  | $\dashv$ |      |          | 76  | +             | +       | Н              | $\vdash$            | +-  | $\vdash$   | -        |     | 126 | $\neg$   | $\dashv$ | _        | _               | ᅥ        | $\dashv$      | $\dashv$ | 一        | $\dashv$ |
| 28   78   128     29   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   145     46   96   146     47   97   147     48   98   148     49   99   149   |            | 27  | $\vdash$                            | $\vdash$   |               | -                   | _        | +-           | 1  | $\neg$   |      |          |     | _             | +-      | Н              | $\vdash$            |   |  | -        |     | 127 | $\dashv$ | _        | $\dashv$ | $\neg$          | _        |               | 十        |          | $\neg$   |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     46   96   146     47   97   147     48   98   149  | _          | 28  | -                                   | <del>                                     </del> |               |                     |          | +            | +-   | $\dashv$ |      |          |     | _             |         | $\vdash$       |                     |   | $\vdash$   | -        |     | 128 | -        | -+       | $\dashv$ | -               | 一        | $\dashv$      | $\dashv$ | _        | $\dashv$ |
| 30   |            |     | $\vdash$                            | $\vdash$   |               |                     | +        | +            | +  |          |      |          |     | $\rightarrow$ | +       | Н              | $\vdash$            | +   | $\vdash$   | -        |     |     | $\dashv$ | _        | -+       | $\dashv$        |          |               | $\dashv$ | +        | $\dashv$ |
| 31 81   32 131   33 132   33 133   34 134   35 135   36 136   37 137   38 88   39 88   40 90   41 91   42 92   43 94   44 94   45 95   46 96   47 97   48 98   49 99   147 147   48 99   149   |            | 30  | $\vdash$                            | $\vdash$   |               | $\vdash$            | ╅        | ┿            | +  | $\dashv$ |      |          |     | +             | +       | $\vdash$       | $\dashv$            | +   | $\vdash$   | -        |     | 120 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | ┪        | $\dashv$      | $\dashv$ | ╛        | -        |
| 32   |            |     | ┢─                                  | ╁╌   | _             | $\dashv$            | ┽        | ╁            | +  | $\dashv$ |      |          |     | $\dashv$      | +       | Н              | ┝╼┼                 | ┿   | $\vdash$   | -        |     | 121 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | -+       | $\dashv$      | $\dashv$ | -        | -        |
| 33   133   134   134   134   134   134   134   135   135   135   135   136   136   136   136   137   137   137   137   137   137   138   138   138   138   139   139   140   140   140   141   141   141   141   141   141   142   142   142   142   143   143   144   14  |            | 37  | $\vdash$                            | ₩  |               | $\vdash$            | +        | +            | +  | $\dashv$ |      | $\vdash$ |     | $\dashv$      | +       | Н              | $\vdash \vdash$     | +-  | <del>   </del>                                   | -        |     | 122 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$      | $\dashv$ | -+       | $\dashv$ |
| 34   |            |     | $\vdash$                            | $\vdash$   |               | $\vdash$            | +        | +            | +  | -        |      |          |     | $\dashv$      | +       | Н              | $\vdash$            | -+  | ├─┼  | -        |     | 132 | $\dashv$ | -+       | -+       |                 | +        | -             | $\dashv$ | $\dashv$ | $\dashv$ |
| 35   36   37   38   37   38   39   38   39 <td< td=""><td></td><td>24</td><td>⊢</td><td>H</td><td></td><td><math>\vdash</math></td><td>╌</td><td>+</td><td>+-</td><td></td><td></td><td></td><td></td><td><math>\dashv</math></td><td>+</td><td>Н</td><td><math>\vdash</math></td><td>+</td><td><math>\vdash</math></td><td>-     </td><td></td><td></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td>-</td><td><math>\dashv</math></td><td><math>\dashv</math></td></td<> |            | 24  | ⊢                                   | H  |               | $\vdash$            | ╌        | +            | +-   |          |      |          |     | $\dashv$      | +       | Н              | $\vdash$            | +   | $\vdash$   | -        |     |     | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$      | -        | $\dashv$ | $\dashv$ |
| 36   37   38   37   38   39   38   39   38   39 <td< td=""><td></td><td>25</td><td>├</td><td>-</td><td></td><td><math>\vdash</math></td><td>+</td><td>+</td><td>+</td><td><math>\dashv</math></td><td></td><td></td><td></td><td>+</td><td>+</td><td>Н</td><td><math>\vdash</math></td><td>+</td><td><del>   </del>-</td><td>-     </td><td></td><td>134</td><td> </td><td><math>\dashv</math></td><td>-+</td><td>-+</td><td><math>\dashv</math></td><td>-</td><td>-</td><td></td><td><math>\dashv</math></td></td<>   |            | 25  | ├                                   | -  |               | $\vdash$            | +        | +            | +  | $\dashv$ |      |          |     | +             | +       | Н              | $\vdash$            | +   | <del>   </del> -                                 | -        |     | 134 |          | $\dashv$ | -+       | -+              | $\dashv$ | -             | -        |          | $\dashv$ |
| 37   88   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   149  |            |     | $\vdash$                            | $\vdash$   |               | $\vdash$            | +        | +            | +-   |          |      | -        |     | $-\vdash$     |         | $\vdash$       | $\vdash$            |   | <del>                                     </del> | -        |     |     | $\dashv$ | -        | $\dashv$ | -               | $\dashv$ | -             | $\dashv$ | $\dashv$ | $\dashv$ |
| 38   88   138     39   90   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |            | 30  | ├-                                  | -  |               |                     | - -      | +            | +  |          |      |          |     | +             | +       | Н              | $\vdash$            |   | <del>     </del>                                 | -        |     | 130 |          | -        | $\dashv$ | -               | -        | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |            |     | -                                   |  |               | $\vdash$            | - -      | +            | +  | _        |      |          |     |               |         | $\vdash\vdash$ |                     | -   | $\vdash$   | -        |     |     |          | $\dashv$ |          | }               | -        | -             | _        | -        | 4        |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |            | 38  | ⊢                                   | $\vdash$   |               | -                   |          | +            | 4-4  | _        |      |          |     |               |         | Ш              | $\vdash$            | -   | -  | -        |     |     | $\dashv$ | 4        |          |                 | 4        | $\dashv$      | _        | 4        | 4        |
| 41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |            |     |                                     | <b> </b>   |               | +                   | +        | +            | +  | _        |      |          |     | _             | +-      | Ш              | $\vdash$            | -   | ╀  | 4        |     |     | _        | -        | $\dashv$ | _               | $\dashv$ | $\rightarrow$ | $\dashv$ | -        | 4        |
| 42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |            |     | $\vdash$                            | <u> </u>   |               | $\perp$             | $\bot$   | $\bot$       | ╀  |          |      |          |     | _             | Н_      | $\sqcup$       | $\vdash \downarrow$ | 4   | $\vdash \vdash$                                  | 4        |     |     | _        | $\dashv$ | $\dashv$ | _               | $\dashv$ | $\dashv$      | _        | _        | _        |
| 43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |            | 41  | <u> </u>                            | $\sqcup$   |               |                     | _ _      | ↓_           | $\bot$   | _        |      |          |     |               | _       | Ш              | $\vdash$            | 4   | <b>├</b> -                                       | 4        |     | 141 | _        | _        | _        | _               | _        | _             | _        |          | _        |
| 44 94 144   45 95 145   46 96 146   47 97 147   48 98 148   49 99 149  |            |     | <u>L</u>                            | _  |               | _                   |          | 1            | $\bot$   | _        | :::  |          |     |               |         | Ш              | $\perp \perp$       | _   | $\sqcup \bot$                                    | الللك    |     | 142 |          | _ .      |          |                 |          | _             | _        | $\perp$  | _        |
| 45 95   46 96   47 97   48 98   49 99  |            |     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |  |               | $\perp$ L           |          | 1            | $\perp \perp$  | _        |      |          |     |               |         | Ш              | $\perp$             | $\bot$  |  | _        |     | 143 |          | $\perp$  |          |                 |          |               | $\perp$  |          |          |
| 46 96   47 97   48 98   49 148   |            | 44_ | $oxed{oxed}$                        |  |               | L_                  |          | _            | $oldsymbol{oldsymbol{\sqcup}}$   |          |      |          | 94  |               | $\bot$  | Ш              |                     |   |  | _ [      |     | 144 |          |          | $\bot$   |                 |          | [             |          |          | _]       |
| 47 97   48 98   49 99  |            |     | $\Box$                              |  |               |                     |          |              | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | _]       |      | ]        |     |               |         |                |                     |   |  |          |     | 145 |          |          |          |                 |          | [             |          | $\Box$   |          |
| 47 97 147   48 98 148   49 99 149  |            |     |                                     |  |               |                     |          |              |  |          |      |          |     | $\Box \Gamma$ |         |                |                     |   |  |          |     |     |          |          |          |                 | J        |               |          |          |          |
| 48 98   49 148   |            |     |                                     |  |               |                     |          | $\prod$      |  |          |      |          |     |               |         |                |                     | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |  |          |     | 147 |          |          | $\Box$   | $\Box$          | J        | $\Box$        | _T       | $\Box$   |          |
| 49 99 149 149  |            | 48  |                                     |  |               |                     |          |              |  |          |      |          | 98  |               |         |                |                     |   |  |          |     | 148 |          | $\neg$   | $\top$   | $\neg \uparrow$ | 寸        | 寸             | $\neg$   | $\neg$   | 乛        |
|  |            | 49  |                                     |  |               |                     |          |              |  |          |      |          | 99  |               |         |                |                     |   |  | ]        |     |     | 一        | T        | $\top$   | 1               | 寸        | $\neg$        | $\neg$   | $\neg$   | $\neg$   |
|  |            | 50  |                                     |  |               |                     |          |              |  |          |      |          | 100 |               |         |                |                     |   |  | 7        |     | 150 | $\neg$   | T        | $\neg$   | 寸               | 7        |               | 十        | $\neg$   | $\neg$   |